

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|--|---|------------------|---------|---------------------|
| L3 | 22 | (US-20010033046-\$ or US-20020158377-\$ or US-20030090043-\$). did. or (US-3330645-\$ or US-3971548-\$ or US-4023676-\$ or US-4138098-\$ or US-4249719-\$ or US-4424955-\$ or US-4746038-\$ or US-4930757-\$ or US-4951929-\$ or US-5198179-\$ or US-5257280-\$ or US-5371759-\$ or US-5458320-\$ or US-5465942-\$ or US-5744050-\$ or US-5803948-\$ or US-5863490-\$ or US-5871785-\$).did. or (US-3330645-\$).did. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/09/25 09:44 |
| L4 | 3 | L3 and engage | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 09:44 |
| L5 | 1 | "20060273500" | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 09:46 |
| L6 | 19294 | outer same inner same (pipe or tuyere or nozzle) same thread | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 09:48 |
| L7 | 455 | outer (pipe or tuyere or nozzle) same inner (pipe or tuyere or nozzle) same thread | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 09:48 |
| L8 | 19 | outer (pipe or tuyere or nozzle) same inner (pipe or tuyere or nozzle) same thread and furnace | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 09:56 |

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| L9 | 66 | outer (pipe or tuyere or nozzle) same inner (pipe or tuyere or nozzle) same (groove or screw) and furnace | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 10:54 |
| S1 | 1 | ("3330645").PN. | US-PGPUB; USPAT | OR | OFF | 2007/10/02 14:21 |
| S2 | 1 | ("4721287").PN. | US-PGPUB; USPAT | OR | OFF | 2007/10/29 15:21 |
| S3 | 336 | 266/217.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/10/29 16:04 |
| S4 | 406 | 266/280.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/10/29 16:04 |
| S5 | 100 | S3 and nozzle | US-PGPUB; USPAT | ADJ | ON | 2007/10/29 16:05 |
| S6 | 70 | S4 and nozzle | US-PGPUB; USPAT | ADJ | ON | 2007/10/29 16:28 |
| S7 | 8758 | nozzle and refractory and metal and heat | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 11:49 |
| S8 | 849 | nozzle and refractory and metal and heat and "266".clas. | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 11:49 |
| S9 | 88 | nozzle same refractory same metal same heat and "266".clas. | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 11:50 |
| S10 | 2859 | nozzle and "266".clas. | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 13:14 |
| S11 | 204 | nozzle same refractory same furnace and "266".clas. | US-PGPUB; USPAT | ADJ | ON | 2007/10/30 13:15 |
| S14 | 170 | nozzle same refractory same heat and "266".clas. | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 08:14 |
| S15 | 336 | 266/217.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 13:15 |
| S16 | 33 | S15 and nozzle and (copper or stainless steel) | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 13:15 |
| S17 | 406 | 266/280.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 13:18 |
| S18 | 15 | S17 and nozzle and (copper or stainless steel) | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 13:18 |
| S19 | 393 | nozzle same heat conducting | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 13:23 |

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|-----|------|--|---|-----|-----|---------------------|
| S20 | 219 | nozzle same heat conducting and gas | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 13:24 |
| S21 | 1 | ("5871785").PN. | US-PGPUB; USPAT | OR | OFF | 2007/11/01 13:32 |
| S22 | 1 | ("3971548").PN. | US-PGPUB; USPAT | OR | OFF | 2007/11/01 13:41 |
| S23 | 1 | ("5371759").PN. | US-PGPUB; USPAT | OR | OFF | 2007/11/01 13:42 |
| S24 | 1392 | "266".clas. and nozzle same refractory | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/06/23 16:32 |
| S25 | 902 | "266".clas. and nozzle same refractory and gas and metal | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/06/23 16:33 |
| S26 | 546 | "266".clas. and nozzle same refractory and gas and metal and (jacket or cover\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/06/23 16:34 |
| S27 | 298 | "266".clas. and nozzle same refractory and gas and metal and (jacket or cover\$3) and (nozzle same furnace) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/06/23 16:34 |
| S28 | 12 | S27 and nozzle.ti. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/06/23 16:37 |
| S29 | 115 | nozzle.ti. and refractory and gas same furnace | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/06/23 16:58 |
| S30 | 144 | 266/268.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/07/08 16:22 |
| S31 | 30 | 266/268.ccls. and nozzle and refractory | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/07/08 16:43 |
| S32 | 339 | 266/217.ccls. | US-PGPUB; USPAT | ADJ | ON | 2008/07/08 17:06 |
| S33 | 33 | S32 and nozzle same refractory and gas | US-PGPUB; USPAT | ADJ | ON | 2008/07/08 17:06 |

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| S34 | 62 | "266".clas. and nozzle same refractory and gas and metal and (heat\$3 near2 element) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/07/08 17:14 |
| S35 | 268 | 266/220.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:23 |
| S36 | 853 | 266/99.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:23 |
| S37 | 217 | 266/100.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:23 |
| S38 | 146 | 266/268.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:23 |
| S39 | 1457 | S35 or S36 or S37 or S38 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:25 |
| S40 | 191 | S39 and nozzle same (gas or vapor) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:25 |
| S41 | 122 | S40 and refract\$5 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:25 |
| S42 | 66 | S41 and furnace | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:25 |
| S43 | 55 | S42 and (copper or Cu or steel) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:26 |
| S44 | 371 | 266/265.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:28 |
| S45 | 261 | S39 and (nozzle or tuyere) same (gas or vapor) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:29 |

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| S46 | 160 | S45 and refract\$5 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:29 |
| S47 | 85 | S46 and furnace | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:29 |
| S48 | 71 | S47 and (copper or Cu or steel) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:29 |
| S50 | 280 | S39 and (nozzle or tuyere) same (gas or vapor or fluid) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:32 |
| S51 | 169 | S50 and refract\$5 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:32 |
| S52 | 92 | S51 and furnace | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:32 |
| S53 | 77 | S52 and (copper or Cu or steel) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 16:32 |
| S54 | 290602 | (nozzle or tuyere) same (gas or vapor or fluid) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 17:03 |
| S55 | 5753 | S54 and refract\$5 and furnace and (copper or Cu or steel) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 17:04 |
| S56 | 1137 | S55 and "266".clas. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 17:05 |
| S57 | 1019 | S56 and metal | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 17:05 |
| S58 | 7747 | (nozzle or tuyere) same (gas or vapor or fluid) same refractory | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 17:07 |

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| S59 | 2419 | (nozzle or tuyere) same (gas or vapor or fluid) same refractory and furnace and (copper or Cu or steel) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 17:07 |
| S60 | 653 | (nozzle or tuyere) same (gas or vapor or fluid) same refractory and furnace and (copper or Cu or steel) and "266".clas. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 17:08 |
| S61 | 579 | (nozzle or tuyere) same (gas or vapor or fluid) same refractory and furnace and (copper or Cu or steel) and "266".clas. and metal | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 17:08 |
| S62 | 404 | (nozzle or tuyere) same (gas or vapor or fluid) same refractory same furnace and (copper or Cu or steel) and "266".clas. and metal | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 17:08 |
| S63 | 308 | (nozzle or tuyere) same (gas or vapor or fluid) same refractory same furnace same metal and (copper or Cu or steel) and "266". clas. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 17:08 |
| S64 | 10 | ("1362702" "2023025" "3031178" "3558119" "3831918" "4043542").PN. OR ("4572487").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/09/23 17:18 |
| S65 | 10137 | uwe.in. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/09/23 17:34 |
| S66 | 7 | zulehner.in. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/09/23 17:34 |
| S67 | 12 | zulehner.in. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 17:35 |

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| S68 | 11 | rinnhofer.in. | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/23 17:35 |
| S69 | 12 | ("3076085" "4228314" "4533385" "4592066" "4617671" "4749408" "5052018").PN. OR ("5371759").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/09/24 18:12 |
| S70 | 22 | (US-20010033046-\$ or US-20020158377-\$ or US-20030090043-\$). did. or (US-3330645-\$ or US-3971548-\$ or US-4023676-\$ or US- 4138098-\$ or US- 4249719-\$ or US- 4424955-\$ or US- 4746038-\$ or US- 4930757-\$ or US- 4951929-\$ or US- 5198179-\$ or US- 5257280-\$ or US- 5371759-\$ or US- 5458320-\$ or US- 5465942-\$ or US- 5744050-\$ or US- 5803948-\$ or US- 5863490-\$ or US- 5871785-\$).did. or (US- 3330645-\$).did. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/09/24 18:21 |
| S71 | 3 | S70 and spacer | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/24 18:21 |
| S72 | 3 | S70 and thread | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/24 18:22 |

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